

FAG

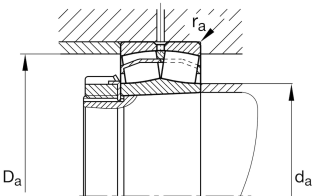
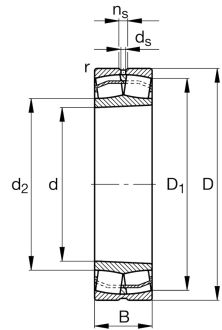
X-life

22219-E1-XL-K-C3

Spherical Roller Bearing

Spherical roller bearings 222...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

Technical information



Your current product variant

Design	E1	without central rip
Bore type	K	Tapered, taper 1:12
Cage	JPA	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	95 mm	Bore diameter
D	170 mm	Outside diameter
B	43 mm	Width
C _r	380,000 N	Basic dynamic load rating, radial
C _{0r}	415,000 N	Basic static load rating, radial
C _{ur}	48,000 N	Fatigue load limit, radial
n _G	4,850 1/min	Limiting speed
n _{gr}	3,300 1/min	Reference speed
≈m	3.97 kg	Weight



Mounting dimensions

$d_{a\ min}$	107 mm	Minimum diameter shaft shoulder
$d_{a\ max}$	112 mm	Maximum diameter of shaft shoulder
$D_{a\ max}$	158 mm	Maximum diameter of housing shoulder
$r_{a\ max}$	2.1 mm	Maximum recess radius
$d_{b\ min}$	102 mm	Minimum cavity diameter of the sleeve
$B_{a\ min}$	9 mm	Minimum cavity width of the sleeve

Dimensions

r_{min}	2.1 mm	Minimum chamfer dimension
D_1	152.7 mm	Bore diameter outer ring
d_2	112.6 mm	Raceway diameter of the inner ring
d_s	4.8 mm	Diameter lubrication hole
n_s	9.5 mm	Width of lubricating groove

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	200 °C	Operating temperature max.

Calculation factors

e	0.24	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2.87	Dynamic axial load factor
Y_2	4.27	Dynamic axial load factor
Y_0	2.8	Static axial load factor

Additional information

H319	Adapter sleeve
AHX319	Withdrawal sleeve



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Static angular error and misalignment
-  Dynamic angular error and misalignment